Qty:

Each

: TUBE ASSEMBLY

: D3304041

: 08/08/2008

: N/A

. D3304 REV. B

Date:

Thursday, 31/07/2008 1:32:46 PM

User:

Julie Lecocq

Process Sheet

Drawing Name

Part Number

Material

Due Date

Drawing Number

Project Number

Drawing Revision

Customer

: CU-DAR001 Dart Helicopters Services

S.O. No. :

Job Number **Estimate Number** : 40860

: 11198

P.O. Number This Issue

: 31/07/2008

Prsht Rev. First Issue **Previous Run** : NC

: 31/07/2008

: 40188

: MACHINED PARTS Type

Written By

Checked & Approved By

Comment

Step 13 revised KJ/JLM : Est: C 04.11.17

Additional Product

Job Number:



Seq. #:

Machine Or Operation:

Description: 304 round tune .875 x .065w

M304TR0875W065 1.0

Comment: Qty.:

1.4109 f(s)/Unit Total : 19.7524 f(s)

Material: AISI 304/316 SS tubing 0.875" x 0.065" wall

(M304TR0.875W.065)

💰 Identify for D3304-1

Batch: **M** 1087

BAND SAW

2.0

BAND SAW



Comment: BAND SAW

Cut to lengh

CONVENTIONAL LATHE



3.0

LATHE CONV.



Comment: CONVENTIONAL LATHE

Cut blank: 15.75" as per Dwg D3304

Turn as per Dwg D3304 Identify as D3304-1

INSPECT PARTS AS THEY COME OFF MACHINE

08/08/05

4.0

QC2



Comment: INSPECT PARTS AS THEY COME OFF MACHINE

5.0

QC8

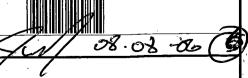
SECOND CHECK



Comment: SECOND CHECK







Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
		,								
Part No		DAP # Foult Cotogony	NCP: You	No DO	A -	Data	<u> </u>			

Part No:	PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
			QA: N/C C	losed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B	Verification	Approval	A				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Sign & Section C		Approval QC Inspector			
								,			
				^,,							
					,						
				•							
								;			

Thursday, 31/07/2008 1:32:46 PM Date: User: Julie Lecocq **Process Sheet** Drawing Name: TUBE ASSEMBLY Customer: CU-DAR001 Dart Helicopters Services Job Number: 40860 Part Number: D3304041 Job Number: Seq. #: Machine Or Operation: Description: SMALL & MEDIUM FAB RESOURCE 1 SMALL FAB 1 6.0 Comment: SMALL & MEDIUM FAB RESOURCE 1 Deburr Drill as per Dwg D3304 using drill Jig D3304-T1 INSPECT WORK TO CURRENT STE 7.0 QC5 Comment: INSPECT WORK TO CURRENT STEP 8.0 D33045 **Bracket** 14.0000 Each(s) Comment: Qty.: 1.0000 Each(s)/Unit Total: **Bracket** Pick: Description Qty Part Number **Bracket** D3304-5 LARGE FAB 9.0 Comment: LARGE FABRICATION RESOURCE 1 Weld bracket as per Dwg D3304 and QSI 004 VISUAL WELDING INSPECTION 10.0 QC9 Comment: VISUAL WELDING INSPECTION QC5 INSPECT WORK TO CURRENT STEP 11.0 Comment: INSPECT WORK TO CURRENT STEP 08 POWDER COATING 12.0 POWDER COATING Comment: POWDER COATING Powder Coat Grey Sandtex (Ref: 4.3.5.6) as per QSI 005 4.3 START TIME: **OVEN TEMPERATURE**

FINISH TIME:

Dart Aerospace Ltd

W/O:		WORK ORDER C	HANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	By Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		· ·					
							24.
Part No	•	PAR #: Fault Category:	NCR: Yes	No DQA	\:	_ Date: _	
			QA:	N/C Closed	: 	_ Date: _	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
· · ·		Description of NC		Corrective Action Section B				Ammoval			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector			
				•							
						1					

Thursday, 31/07/2008 1:32:46 PM Date: User: Julie Lecoca **Process Sheet** Drawing Name: TUBE ASSEMBLY Customer: CU-DAR001 Dart Helicopters Services Job Number: 40860 Part Number: D3304041 Job Number: Seq. #: Description: **Machine Or Operation:** INSPECT POWDER COAT/CHEMICAL CONVERSION 13.0 QC3 Comment: INSPECT POWDER COAT PIP PIN 14.0 BLBS0016 44.0000 Each(s) Comment: Qty.: 1.0000 Each(s)/Unit Total: 6.000 665 x y gone to land m. F 6.0000 PIP PIN Pick: Qtv Part Number Description 1 BLBS-0016 Pip Pin 15.0 **CBL460** Comment: Qty.: 2.0000 Each(s)/Unit Total 28:0000 Each(s) 12.000 Loop Sleeve Pick: Qty Part Number Description Batch 2 CBL-460 Loop Sleeve CBL1240 16.0 14:5838 f(s) Comment: Qty.: 1.0417 f(s)/Unit Total: 6.2502 Cable Pick: Qty Part Number Description 12.5" CBL-1240 Cable 17.0 SMALL FAB Comment: SMALL & MEDIUM FAB RESOURCE 1 Assemble lanyard and pip pin as per Dwg D3304 INSPECT WORK TO CURRENT STEP 18.0 QC5 Comment: INSPECT WORK TO CURRENT STEP PACKAGING PACKAGING RESOURCE #1 19.0 Comment: PACKAGING RESOURCE #1 Identify with P/N and B/N as per Dwg using a permanent fine point marker, then Stoc

Form: rprocess

Page 3⁻⁻

Dart Aerospace Ltd

Duit Acrospado Eta								
W/O:		WORK ORDER CHA	ANGES					
DATE	STEP	PROCEDURE CHANGE	Ву	By Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No	:	PAR #: Fault Category:	NCR: Yes	No DQ	A:	Date:		
			QA:	N/C Close	d:	_ Date: _		

NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B	Verification	Approval					
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	Approval QC Inspector			
							-				

Date:

Thursday, 31/07/2008 1:32:46 PM

User:

Julie Lecocq

Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: TUBE ASSEMBLY

Job Number: 40860

Part Number: D3304041

Job Number:



Seq. #:

Machine Or Operation:

Description:

20.0

QC21

FINAL INSPECTION/W/O RELEASE



Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



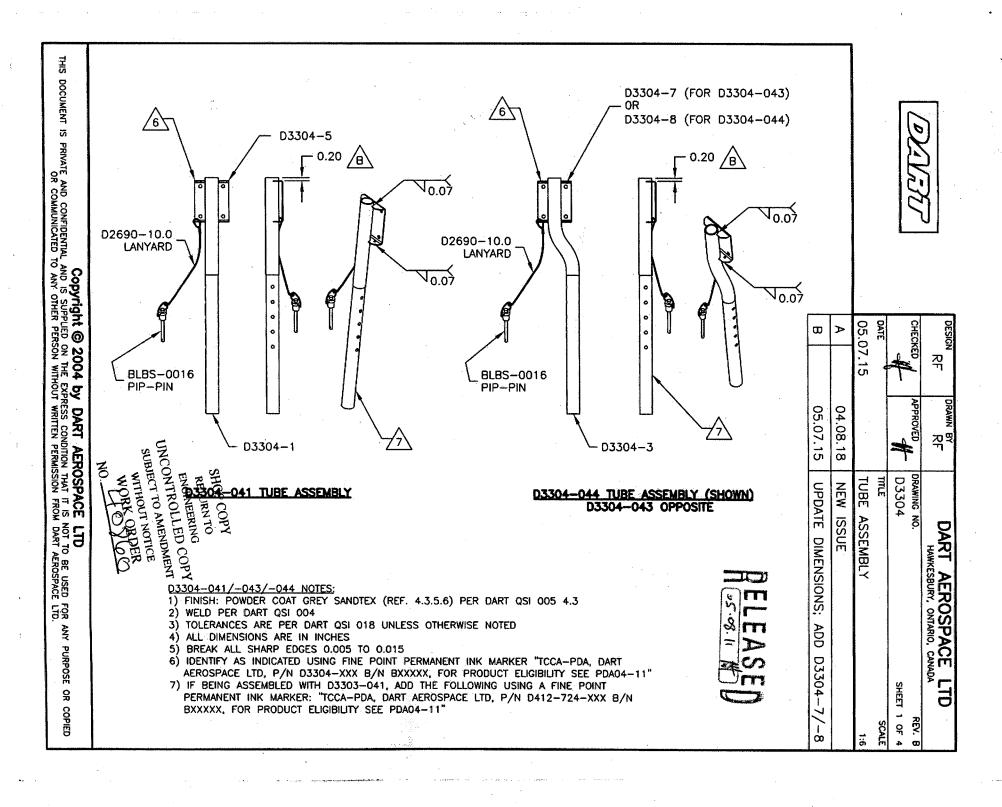
Dart Ae	rospace Li	td								
W/O:			W	ORK ORDER CHA	NGES					
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No	:	PAR #:	Fault Cate	gory:	NC	R: Yes	No DQ	A:	_ Date: _	
						QA: N	C Close	d:	_ Date: _	
NCR:		,	WORK ORD	ER NON-CONFO	RMANCE	(NCR)			
		Description of NC		Corrective Action Section B		Veri		cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Descript Chief Eng	on	Sign & Date		ion C	Chief Eng	QC Inspector
								1		
								•		

DART AEROSPACE LTD	Work Order: 4080	0
Description: Tube Assembly	Part Number: D33	04-1
Inspection Dwg: D3304 Rev: B	Page	1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

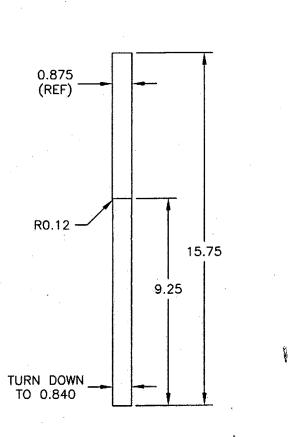
	>	First Arti	cle	Prot	otype		
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Cor	nments
Ø0.840	+/-0.010	\$, 840"					
15.75	+/-0.030	15,75					
9.25	+/-0.030	9.25				·	
Ø0.875	+/-0.010	6.874"		Ţ			. •
0.065	+/-0.010	.064"					
					:		
: :							
, <u>, , , , , , , , , , , , , , , , , , </u>							
-							
					·		
-							
							+
				_			
				4		_	
Measured by:	T [,	Audited by:	911		Prototype Ap	proval:	N/A
	2/08/05	Date:	//	06:00		Date:	N/A

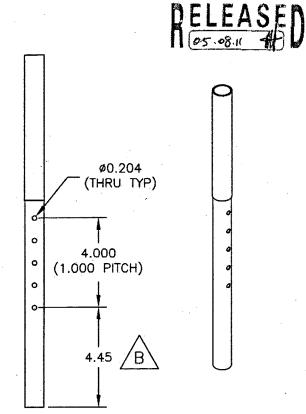
Rev	Date	Change	Revised by	Approved
Α	04.09.08	New Issue P/O D3304-041	KJ/JLM	
В	06.03.09	Dwg Rev updated	KJ/JLM LA	
С	08.07.23	R0.12 dimension removed	KJ/DD O	\(\sum_{\text{\tin}\ext{\texi{\text{\texi{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\texitil{\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\titt{\text{\text{\texi}\tint{\text{\texi}\tittitt{\text{\tin}\tint{\text{\texitil{\text{\tin\texitil{\texi{\texi{\texi{\tet{\tin}\tint{\tint}\til\tint{\texit{\texi{\texi{\texi{\texi{\t





DESIGN RF	DRAWN BY RF	DART AEROS HAWKESBURY, ON	
CHECKED ,,,	APPROVED	DRAWING NO.	REV. B
1 -	#	D3304	SHEET 2 OF 4
DATE		TITLE	SCALE
05.07.15		TUBE ASSEMBLY	1:4





D3304-1 TUBE

SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY

D3304-1 NOTES: 1) MATERIAL: AISI 304/316 STAINLESS STEEL TUBE Ø0.875 x 0.065 WALL

(REF. DART SPEC M304TR0.875W.065) ENSURE SEAMLESS TUBE IS USED

2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3) ALL DIMENSIONS ARE IN INCHES

4) BREAK ALL SHARP EDGES 0.005 TO 0.015

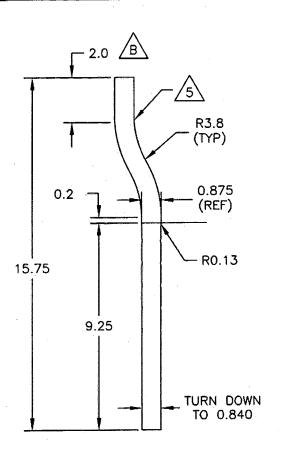
SUBJECT TO AMENDMENT WITHOUT NOTICE

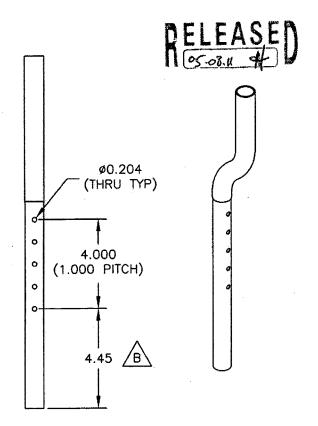
Copyright © 2004 by DART AEROSPACE LTD

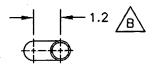
THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



DESIGN RF	DRAWN BY RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
CHECKED	APPROVED	DRAWING NO.	REV. B	
一做	一世	D3304	SHEET 3 OF 4	
DATE		TITLE	SCALE	
05.07.15		TUBE ASSEMBLY	1:4	







D3304-3 TUBE

SHOP COPY RETURN TO ENGINEERING UNCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER

D3304-3 NOTES:

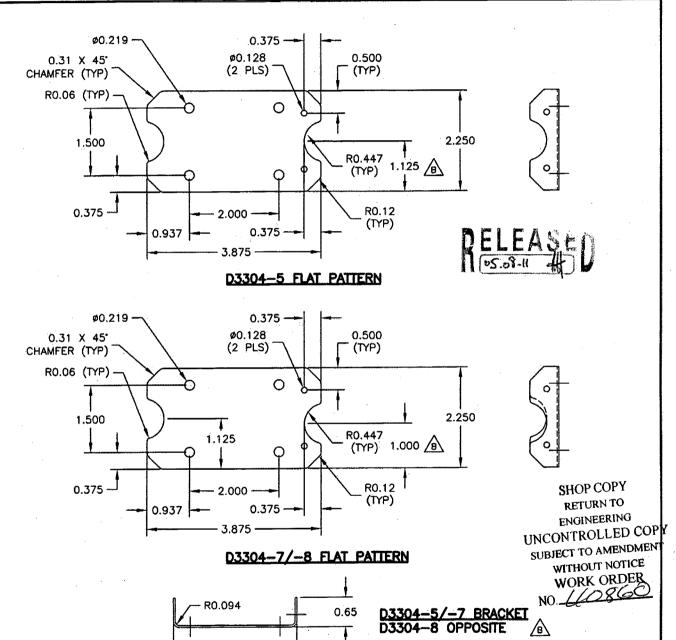
- 1) MATERIAL: AISI 304/316 STAINLESS STEEL TUBE Ø0.875 x 0.065 WALL (REF. DART SPEC M304TRO.875W.065) ENSURE SEAMLESS TUBE IS USED 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.015
- 5) BEND LINES 9.625, 13.375 DIMENSIONS

Copyright © 2004 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



DESIGN RF	DRAWN BY RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED /	APPROVED	DRAWING NO.	REV. B
#	#	D3304	SHEET 4 OF 4
DATE		TITLE	SCALE
05.07.15		TUBE ASSEMBLY	1:2



NOTES:

- 1) MATERIAL: AISI 304/316 SS 0.040 THICK SHEET (REF. DART SPEC M304S20GA)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

2.750

- 3) ALL DIMENSIONS ARE IN INCHES
- 4) BREAK ALL SHARP EDGES 0.005 TO 0.015

Copyright © 2004 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.